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06/29/93 **Environmental Management**

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO) VOLUME II: GROUNDWATER (GW) VOLUME III: GEOTECHNICAL (GT) VOLUME IV: SURFACE WATER (SW) VOLUME V: ECOLOGY (EE) VOLUME VI: AIR (AP)

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FO.02	Transmittal of Field QA Records Working Base Maps	3	05/22/92
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			2	01/15/93
		•	2	06/29/93
FO.17 Determining Out-Of-Specification Analytical	0.17	Determining Out-Of-Specification Analytical		To Be
Results for Environmental Samples				Added

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FO.18	Environmental Sample Radioactivity		
	Content Screening	1	05/12/92
DCN 93.01	Clarification of Procedure	1	01/11/93
FO.19	Base Laboratory Work	2	05/12/92

This is a CONTROLLER DOCUMENT

Take Removed a PLANT **ENVIRONMENTAL MANAGEMENT** ENVIRONMENT LALAGRAM (TESMARTMEN DOCUMENT CHANGE NOTICE (DCN)

This is a RED Stamp

DOCUMENT NUMBER Procedure No. 5-21000-OPS-FO.16 Rev. 2

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Title Field Radiological Measurements					Date 6 · 29 May 12, 1993	-93 see DCN Nu 5-21000-0	PS-FO.16	
Expires Upon Incorporation Scope Limitation: None Procedure Revision Required YES X NO State 18/93 19/8/93								
Item Number	Page	Step or Paragraph		(Use D		langes N SHEET for Additional S	Space)	
(1)	7 of 16	Section 6.2.1.1 4th Para	Radiologi	Add the following new line to the end of the paragraph: Refer to the Environmental Management Radiological Guidelines (EMRG) 6.1, Performance Tests and Operational Checks for the Ludium Model 12-1A and Model 31 Survey Instruments for more Information.				
(2)	of 16 9 6,18/9.3	Section 6.2.1.3'4 (new)	Insert afte 6.2.1.4 N	er Section 6.2.1 Monitoring with		SM-7 414/43		
	618/93	10/1/8/93	The Ludium Model 31 count rate meter with a 449 pancake probe will be used as described in this subsection to monitor environmental material, samples, and equipment. Direct surface monitoring with a Ludium Model 31 is a method of determining the presence and extent of beta/gamma radiological contamination. However, this method will not distinguish between fixed and removable beta/gamma radiological contamination.					
			The preferable method of using the Ludlum Model 31 to monitor for surface contamination is to make slow sweeping movements over the surface of the object being screened. This is done by first establishing a background reading while holding the instrument 15 feet from the item being screened, than placing the probe within one-half inch of the surface and moving the probe no faster than 2 inches per second. If counts are detected on the surface, the probe is held over this					
			And area for at least 5 seconds and the counts are verified. Monitoring results greater than 5000 dpm/100cm² and as indicated by the Ludium 31 will be considered indicative of the presence of radiological contamination on the surface. Net values are the subtraction of the background reading from the Ludium Model 31 direct reading. Refer to Environmental Management Radiological Guidelines (EMRGs) 22, Performance of Surface Contamination Surveys, and EMRG 6.1, Performance Test and Operational Checks for Ludium Model 12-1A, and Model 31 Survey Instruments for more information.					
Justification (Reason for change - Provide numbers to reference corresponding items above.)								
This SOP did not provide guidance for use of the Ludlum Model 31 or the Bicron Analyst FIDLER.								
Concurr	ence	Organization	Req	Date	Concurrence	Organization	Req	Date V
A) c	muci	QAPM	X	5/28/90	Keur User	User	Y	G/4/98
EOM 1/25/93		3 .		Keize D. C	- USER	<u> </u>	6/7/93	
					Donne Sil	EQS		6/8/93
DOE 4/4/23 X								
Approval of	•	sible Manager Da	te -1-93	1 2-6	Posting Required? Yes	If Yes, by what date?	Date Po	ested

DOCUMENT CHANGE NOTICE (DCN) (continuation sheet)

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5-21000-OPS-FO.16 Rev. 2		6 Rev. 2	Field Radiological Measurements				
Scope Lim	itation _	None					
Item		Step or	Changes				
Number	Page	Paragraph	(Use DCN CONTINUATION SHEET for Additional Space)				
(3)	9 of 16	Section 6.2.1.5 (New)	Insert after Section 6.2.1.4 (new section described it item #2 of this DCN): 6.2.1.5 Monitoring with a Bicron Fidler (Field Instrument for the Detection of Low-Energy Radiation) The Bicron FIDLER is used in the work area to determine the presence of low-energy radiation sources. The Bicron FIDLER with a Bicron Analyst meter, with a scaler,				
			and a Bicron G-5 scintillation probe is used as described in this subsection to monitor environmental materials, samples, and equipment. However, this method will not distinguish between fixed and removable radiological contamination.				
			Direct surface monitoring with a Bicron FIDLER requires a background reading. This is done by holding the instrument 15 feet from the item to be surveyed and performing a one-minute scaler count. Once background is established, the item is screened by moving the instrument no faster than 2 inches per second within 12 inches of the surface. If counts are detected on the surface, the Bicron FIDLER is held over the area and a one-minute scaler count is taken.				
			Monitoring results greater than 2 times the square root of the background reading, plus the background reading, as indicated by the one-minute scaler reading, should be reported to the Site Safety Officer (SSO) so instruction on how the activity should be quantified can be given. Refer to the Environmental Management Radiological Guidelines (EMRGs) 6.6, Use of the Bicron FIDLER (Field Instrument for the Detection of Low-Energy Radiation), for more information.				
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Justification	•	n for Change –	Provide Numbers To Reference Corresponding Items Above)				